

I CLAIM AS MY INVENTION:

1. A method for producing lesions in cardiac tissue comprising the step of
subjecting a cardiac tissue containing a photodynamic drug to a light source in a
predetermined pattern to form a lesion corresponding to that predetermined pattern.

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2. The method of claim 1 further comprising the step of introducing said photodynamic drug to said cardiac tissue.

3. The method of claim 2 wherein said introducing step comprises systemic
10 introduction of said photodynamic drug to a patient having said cardiac tissue.

4. The method of claim 2 wherein said introducing step comprises local introduction of said photodynamic drug to said cardiac tissue.

15 5. The method of claim 1 wherein said predetermined pattern encircles an
ectopic arrhythmic focus in said cardiac tissue.

6. The method of claim 1 wherein said predetermined pattern encircles the pulmonary vein bed in the left atrium of a patient having said cardiac tissue.

7. The method of claim 1 wherein said predetermined pattern encircles at least one os of superior pulmonary veins in the left atrium of a patient having said cardiac tissue.

8. The method of claim 1 wherein said predetermined pattern is exterior to a heart containing said cardiac tissue.

5 9. The method of claim 8 wherein said light delivery is through an epicardium.

10. The method of claim 1 wherein said predetermined pattern is interior to a heart containing said cardiac tissue.

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Sub 12
11. A method for the heat-free treatment of a selected cardiac tissue comprising the step of subjecting said cardiac tissue containing a photodynamic drug to a light source to form a lesion.

5 12. The method of claim 11 further comprising the step of introducing said photodynamic drug to said cardiac tissue.

13. The method of claim 12 wherein said introducing step comprises systemic introduction of said photodynamic drug to a patient having said cardiac tissue.

10 14. The method of claim 12 wherein said introducing step comprises local introduction of said photodynamic drug to said cardiac tissue.

15 15. The method of claim 11 wherein said step of subjecting said cardiac tissue containing a photodynamic drug to a light source to form a lesion comprises forming a predetermined pattern on said cardiac tissue.

Sub 13
20 16. The method of claim 15 wherein said predetermined pattern encircles an ectopic arrhythmic focus in said cardiac tissue.

17. The method of claim 15 wherein said predetermined pattern encircles the pulmonary vein bed in the left atrium of a patient having said cardiac tissue.

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56AY 22. A light delivery device for providing light to a cardiac tissue comprising a generally linear member having a distal region with an axis, said distal region having a substantially clear and linear light emitting region corresponding to said axis, said light emitting region being conformable to a curved cardiac tissue.

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~~23.~~ The light delivery device of claim 22 wherein said light emitting region emits all light emanating from said device.

24. The light delivery device of claim 22 wherein said light emitting region
10 comprises a window or lens.

25. The light delivery device of claim 22 wherein said light emitting region
comprises at least one LED.

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